QUERIES ON SQL JOINS

1. EQUIJOIN

A join which contains an equal to '=' operator in the joins condition.

a. Tablename1.columnname = Tablename2.columnname

SQL>select empno,ename,job,dname,loc from emp,dept where emp.deptno=dept.deptno;

b. Table name alias

SQL>select empno,ename,job,dname,loc from emp e,dept d where e.deptno=d.deptno;

c.Using clause

SQL>select empno,ename,job, dname,loc from emp e join dept d using

(deptno);

d. On Clause

SQL>select empno,ename,job,dname,loc from emp e join dept d on (e.deptno=d.deptno);

2.NON-EQUI JOIN

A join which contains an operator other than equal to '=' in the joins condition.

SQL> select empno,ename,job,dname,loc from emp e,dept d where e.deptno > d.deptno;

3.NATURAL JOIN

Natural join compares all the common columns.

SQL> select empno,ename,job,dname,loc from emp natural join dept;

4. CROSS JOIN

This will gives the cross product.

SQL>select empno,ename,job,dname,loc from emp cross join dept;

5. OUTER JOIN

Outer join gives the non-matching records along with matching records.

LEFT OUTER JOIN

This will display the all matching records and the records which are in left hand side table those that are not in right hand side table.

EX. 1

SQL> select empno,ename,job,dname,loc from dept d left outer join emp e

on(e.deptno=d.deptno);

EX. 2

SQL> select empno, ename, job, dname, loc from emp e left outer join dept d

on(e.deptno=d.deptno);

RIGHT OUTER JOIN

This will display the all matching records and the records which are in right hand side table those that are not in left hand side table.

EX. 1:

SQL> select empno,ename,job,dname,loc from emp e right outer join dept d on(e.deptno=d.deptno);

EX. 2:

SQL> select empno,ename,job,dname,loc from dept d right outer join emp e

on(e.deptno=d.deptno);

SELF JOIN – JOINING TABLE TO ITSELF

- Join condition is based on columns which has similar values
- Ex: empno, mgr
- Constructing a join condition on empno with mgr columns

To get employee names and their reporting manager's names

Ex:

SELECT E1.ENAME AS EMPLOYEE , E2.ENAME AS REPORTS_TO FROM EMP E1, EMP E2 WHERE E1.MGR=E2.EMPNO;

FULL OUTER JOIN

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GETTING DATA OF MATCHING ROWS AND NON-MATCHING ROWS FROM BOTH TABLES

Ex: select empno,ename,job,dname,loc from emp e left outer join dept d on(e.deptno=d.deptno) UNION select empno,ename,job,dname,loc from emp e right outer join dept d on(e.deptno=d.deptno);